## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(pulsetube\$ or (pulse adj tube?)) with phase with ( heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 08:56
S3	10	(("4,485,631") or ("6,094,921") or ("6, 205,792") or ("6,256,998") or ("6,301, 902") or ("20010032469") or ("6,308, 520") or ("6,393,845") or ("6,397, 605") or ("20040040315")).PN.	US-PGPUB; USPAT	OR	OFF	2006/12/13 07:50
S4	0	(pulsetube\$ or (pulse adj tube?)) with (valves or valve) with frequency with (heat or heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 07:54
S5	4	(pulsetube\$ or (pulse adj tube?)) with frequency with (heat or heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 08:55
S6	29	(pulsetube\$ or (pulse adj tube?)) and (valves or valve) and frequency and (heat or heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 07:55

## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	10	(("4,485,631") or ("6,094,921") or ("6, 205,792") or ("6,256,998") or ("6,301, 902") or ("20010032469") or ("6,308, 520") or ("6,393,845") or ("6,397, 605") or ("20040040315")).PN.	US-PGPUB; USPAT	OR	OFF	2006/12/13 07:50
S4 .		(pulsetube\$ or (pulse adj tube?)) with (valves or valve) with frequency with (heat or heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 07:54
S5	4	(pulsetube\$ or (pulse adj tube?)) with frequency with (heat or heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 09:03
S6	29	(pulsetube\$ or (pulse adj tube?)) and (valves or valve) and frequency and (heat or heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 07:55
S7	O	(pulsetube\$ or (pulse adj tube?)) with phase with ( heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 09:03
S8	34	(pulsetube\$ or (pulse adj tube?)) and phase and ( heating or defrosting or defrost or defrosted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2006/12/13 09:04